What is claimed is: A continuous process for producing a breathable foam comprising: 1. mixing at least one thermoplastic polymer with at least one blowing agent 5 to form a foamable solution. feeding the foamable solution into a shaping orifice. causing the foamable solution to form a foam material having at least one major surface at or about the time it exits the shaping orifice, and uniaxially drawing the foam at a rate such that at least one foam cell 10 ruptures at or about the time the cell exits the shaping orifice, and wherein the resulting foam is porous in a direction perpendicular to a major surface of the foam. The method of claim 1 wherein the blowing agent is a chemical blowing 2. agent. 15 The method of claim 1 wherein the shaping orifice is a flat film die. 3. The method of claim 1 wherein the thermoplastic polymer is an amorphous 4. polymer. 20 The method of claim 1 wherein the thermoplastic polymer is an elastomer 5. or thermoplastic elastomer. The method of claim 5 wherein the thermoplastic polymer has a glass 6. 25 transition temperature less than 20°C. The method of claim 1 wherein the uniaxial draw rate is chosen to provide 7. the resulting foam article with an MVTR of at least 300 grams per square meter per 24 30 hours. - 3**8** -

- 8. The method of claim 1 wherein the uniaxial drawing anisotropically orients the foam such that the foam is significantly more elastic in the cross-web direction than in the machine direction.
- 9. The method of claim 1 further comprising stretching the breathable foam in one or more directions after it has cooled to ambient temperature.

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- 10. The method of claim 1 further comprising affixing a material onto at least one major surface of the foam.
- 11. The method of claim 10 wherein the material is affixed by extrusion lamination.
- 12. The method of claim 11 wherein the laminated material is selected from the group consisting of barrier materials, release materials, nonwoven materials, woven materials, and pressure sensitive adhesive materials.
 - T3. An article comprising a breathable foam layer, the layer comprising an amorphous polymer, the foam layer further having at least one major surface and having porosity in a direction perpendicular to a major surface.
 - 14. The article of claim 13 wherein the amorphous polymer has a glass transition temperature of less than 20°C.
 - 15. The article of claim 13 having at least two layers.
 - 16. The article of claim 15 comprising at least one non-porous layer.
- 17. The article of claim 13, the porosity of which may be increased during use by stretching, and which article can recover at least 50% of such increase in porosity upon release from stretching.

A continuous process for making a multi-layer structure containing 18. breathable foam comprising: mixing at least one thermoplastic polymer with at least one blowing agent to form a foamable solution. separately feeding the foamable solution and one or more additional 5 thermoplastic materials into a shaping orifice whereby the foamable solution forms at least one layer and the additional thermoplastic material forms at least one layer of a multilayered structure having at least one major surface. causing the foamable solution to form a foam at or about the time it exits the shaping orifice, and 10 uniaxially drawing the multi-layer structure at a rate such that at least one foam cell ruptures at or about the time the cell exits the shaping orifice, and wherein the resulting multi-layer structure is porous in a direction perpendicular to a major surface of the multi-layer structure. 15 The method of claim 18 wherein the blowing agent is a chemical blowing 19. agent. The method of claim 18 wherein the additional thermoplastic material 20. comprises at least one outermost layer in a multi-layer construction. 20 The method of claim 18 wherein the thermoplastic polymer is a 21. thermoplastic elastomer. The method of claim 18 wherein the additional thermoplastic material is a 25 22. semi-crystalline polymer and the foamable solution comprises an amorphous thermoplastic polymer. The method of claim 18 wherein the additional thermoplastic material 23. comprises an amorphous polymer. 30 - 40 -

- 24. The method of claim 18 further comprising affixing a material onto at least one major surface of the multi-layer construction.
- 25. An article comprising at least two layers wherein at least one layer comprises a breathable thermoplastic foam having at least one major surface and having at least one ruptured cell, and wherein the foam layer has porosity in a direction perpendicular to a major surface of the foam and wherein a second layer comprises a polymeric material.
- 26. The article of claim 25 wherein the second layer is melt-bonded to a major surface of the foam layer.

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- 27. The article of claim 25 wherein the second layer comprises an unfoamed material.
- 28. The article of claim 25 wherein the foam layer comprises a thermoplastic elastomer.
- 29. The article of claim 25 comprising a three layer ABA structure, wherein the B layer is a breathable thermoplastic amorphous foam and the A layers comprise an unfoamed material.
 - 30. The article of claim 29 wherein the B layer is a thermoplastic elastomer.
- 31. The article of claim 25 having a moisture vapor transmission rate greater than 300 grams per square meter per 24 hours.
- 32. The article of claim 25 further comprising a pressure sensitive adhesive layer affixed to a major surface of an A layer.
- 33. The article of claim 29 further comprising a material laminated to at least one A layer.